

# ST World

THE LEADING CURRENT NEWS SOURCE FOR THE ATARI ST

## ATARI SHOW

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### ATARI CORP TO GO PUBLIC

Atari Corp. files with the Securities Exchange Commission to make a public offering of 16% of the company or 4.5 million shares. Jack Tramiel purchased Atari Corp from Warner Communications Inc. in 1984 at a time when it was estimated that Warner was losing \$12 million a week! Warner sold Atari to Jack for \$240 million in notes and will receive approximately \$36 million from the proceeds of the public offering. In addition, 7 million shares of Atari Corp (4% of Atari, the Tramiels will keep 53%). Under the leadership of Jack Tramiel and Company, Atari has made a profit of \$8.5 million in the first half of this year on sales of \$105.6 million.

Rumour among computer industry watchers is the Jack is taking the company public now because he wants the cash to take a slice out of Apple's christmas sales. Others say he wants to cash to buy Commodore International Ltd., the company he built from a typewriter repair shop to a \$1 billion dollar computer giant. Jack left Commodore in 1983 and Commodore has been on the skids since.

Interested investors should contact Paine Webber for additional information.

### MAC YOUR ST !

The MACHINTOSH EMULATOR for the Atari ST is now available. The emulator is the creation of the wizardry talents of David Small and Joel Rosenblum of Data Pacific, Inc. Data Pacific's introduction of the MAGIC SAC turns your Atari ST into a Macintosh compatible system that will operate 20% faster than a MAC!

Other benefits include a 30% larger screen display and IBM diskette compatibility. ST users will benefit from the low cost expansion capabilities of the 520ST from 512K to 1 MEG and the 1040ST to 4 MEG. Unlike the limitations imposed upon the Macintosh user, presently limited to 1024K.

There are two versions, and three options, of the Magic Sac:

(1) MAGIC SAC 1. - (\$129.95) This version is called the apprentice version. The kit requires some assembly and is for users that feel comfortable with the assembly of connection cables and who do not need a clock/calendar.

(2) MAGIC SAC PLUS. - (\$149.95) This version does not require the assembly of cables and has a clock/calendar which may be used in either TOS or Macintosh emulation modes.

(3) MAGIC SAC TRANSFER CABLE. - (\$35.00) This is the serial cable which is included in the Magic Sac Plus version. It connects the Macintosh to the Atari ST to allow transfer of software and data.

(4) MAGIC SAC PRINTER CABLE. - (\$35.00) This is the cable necessary for the Magic Sac to use the Apple ImageWriter printer. The ImageWriter is required to support printing of Apple Machintosh graphics. Future upgrades of the Magic Sac will reportedly provide limited graphics using other printers and full Macintosh graphics using the AppleTalk network and the LaserWriter laser printer.

(5) MAGIC SAC DISK DRIVE. - (Price not announced.) Not presently available. This is a hardware enhancement to the Atari ST SF354 or SF314 disk drives which enables them to read Macintosh diskettes directly, bypassing the need for serial cable transfers.

CONTINUED ON PAGE 15





# TOUGH & FOR GOLF PROS



# TOUGHER PROS OR TO BE...

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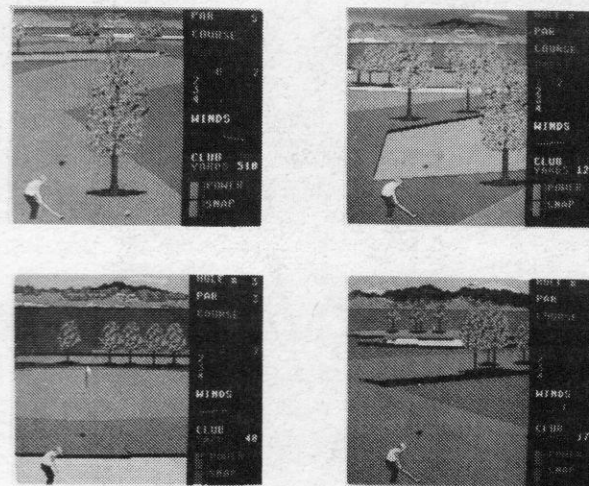
If your dealer doesn't have it in stock and you can't locate it, call CSS, Computer Software Service at 1-800-422-4912 and ask for Karen, she will tell you where you can buy it in your area.

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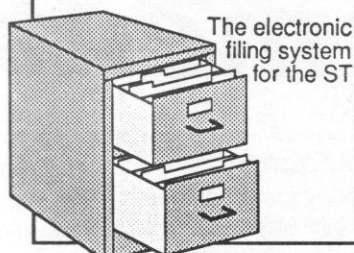
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PRODUCTS USED TO PREPARE  
ST WORLD  
ATARI CORP  
520ST  
ABACUS SOFTWARE  
TextPro  
QUALITY MICRO SYSTEMS, INC.,  
QMS KISS  
LASER PRINTER  
STAR MICRONICS  
SG15 PRINTER  
BATTERIES INCLUDED  
DEGAS  
UNISON WORLD, INC.  
PRINT MASTER

## DataTrieve



## NEW DATABASE FOR YOUR ST

BY TOM PEARCE

Abacus Software enters the database market with their introduction of **DataTrieve** - (\$49.95). DataTrieve is a easy to use GEM based program, with drop down function and help menus. Included on the program disk are 7 RAM disk programs which are supported by DataTrieve for high speed operation. The ram disk programs are configured for 100K, 200K, 300K, 400K, 500K, 600K and 650K and supports all functions of a normal disk drive except format and full disk copy.

You are allowed to open four files at once, transfer data between files, index up to 20 fields per record and have as many fields per record as 64,000 characters can support.

Setting up your records is a simple two step task, first is to identify your fields by entering the names of fields you want, that's it for step one. Step two is locating the fields on your screen where you want them to appear, this is a simple task, described as creating the "screen mask". This is also an opportunity to get very creative. You have at your disposal six different text sizes ranging from 8 point to 24 point and six different type styles, bold, light, italics, underlined, outlined and shadowed. You may use a combination of all text sizes and styles as well as a combination of colors for those using a color monitor, (monochrome monitor users have only the standard color black). In addition, there are functions to allow you to draw circles, rectangles, round rectangles and lines around your titles or fields. to additionally enhance your creation, there are eight fill patterns available for your graphic objects (circles and rectangles).

DataTrieve allows you to create numerous screen masks which are completely separate from files. This lets you work on one file with several masks, or to use one mask for several files. If during a mask input, a

mask field is not relevant in the current file (which can occur if you use a mask for several files), you can leave the mask field blank. One possible use of different masks is a customer database in which some fields can only be changed by the manager, while others can be changed by sales personnel. Storage of a record is mask independent, only items that were actually entered are saved. If a field is left blank, then it will not be stored in the field. this saves storage space on your disk.

There are two additional screen mask editors for printing files. They work similar to the mask editor, but are used for creating your printer format. One is a list editor, which makes it easy to create column data from your files. In this format columns with numerical fields can be totaled, making calculations much easier. Changing the contents of a field can, for example, print a subtotal or make a page change. You can also create sublists from a file. The other editor is the full page printer mask editor, providing you with complete control over the printed location of your fields. It is ideal for filling out forms and creating custom page reports.

The extensive flexibility of creating record fields, screen masks, and printer masks is only the beginning of the power of DataTrieve. The search options are extremely powerful and will handily accommodate the most critical user. Search criteria includes: simple exact matches, partial matches, the use of wild cards (\*) before or after characters (Me\* will find Meyer and Metropolitan), searches may include the use of (?) (Me?er would find Meyer or Meijer, but not Meiers.), use of more than, less than, between ranges, the use of (or) and (and), global searches, and multiple criteria in as many fields as required.

Abacus has also include a set of masks for several different

CONTINUED ON PAGE 21



THE ARTISTRY OF IT. THE ARTISTRY OF IT. THE ARTISTRY OF IT.

# Entertainment

FOR THE ATARI ST. FOR THE ATARI ST. FOR THE ATARI ST.

**Eight Ball**

by Stanley Crane

*Eight Ball* simulates the classic game of pool. This new arcade game so real that each match will put you in the limelight, or behind the eight-ball.

- The rules, the physics and even the graphics are accurate and complete.
- Direct the aim and power of your shot visually and dynamically.
- Five different options let you define a "scratch."
- Practice alone, or challenge a friend.

Color and monochrome . . . . . \$29.95

**Pro Football Wizard**

by William Tan

This football program predicts the outcome of NFL games. Win friendly speculations, and law permitting--money! Replace your hunches with scientific analyses.

- Explains handicapping, betting, money management!
- Keeps track of scores and statistics for 28 teams.
- Minimal data entry! All that's required is a newspaper with box scores and an hour each week.
- Screen and printer reports for better insight.
- Considers physical and psychological factors!
- Accuracy for the last 3 years: almost 80% of straight-up predictions, and over 60% with the point spread!

Color and Monochrome . . . . . \$39.95

**More Favorites!**

**The Animator** - Animate Neo or Degas pictures. Great for business presentations or just for fun!

Color only . . . . . \$39.95

**Cards** - Five classic card games: Solitaire, Klondike, Poker Squares, Cribbage, and multi-player Black Jack!

Color and Monochrome . . . . . \$39.95

**Flip Side** - Play Reversi against friends or the computer. Six computer skill levels, option for timed games, and even in-play help and suggestions!

Color and Monochrome . . . . . \$39.95

**Pinball Factory**

by Kary McFadden

Pinball springs to life with fresh new angles that only the computer can offer. This great arcade game also lets you design, build, edit, and play your own custom screens!

- Comes complete with sample games.
- Place bumpers, tabs, and other devices to get the action just right.
- Built-in graphic editor lets you draw the solid barriers as well as illustrations on the playing area.
- Alter gravity, bounce, scoring, and other rules.
- Up to four players with different speeds and settings!
- Multi-ball action gives you up to three balls at once!
- "Tilt" controls even let you "bump" the machine!

Color only . . . . . \$39.95

**Super Conductor**

MacKenzie &amp; Sorenson

This advanced program is for amateur and professional musicians. With or without a MIDI synthesizer, you can record, edit, and play music. Functions include:

- Complete control of external synthesizer.
- Editing of recorded material.
- Quantizing: corrects and aligns notes.
- Holds 10 songs in memory for editing or performing.
- Handles synthesizer "system exclusive" data.
- Song structuring lets you repeat parts of songs, and duplicate even measure-length pieces.
- Play music through the Atari internal speaker!

Color and monochrome . . . . . \$69.95



**Major Motion** - In this arcade, driving game, enemy cars try to smash you off the road. You can play rough too, and there are always your machine guns... Race along highways, curves, and even a waterway!

Color Only . . . . . \$39.95



**Time Bandit** - The top ST game! Battle evil across 16 unique arcade lands, 3 adventures, and *thousands of screens*! Spectacular graphics and animation. The adventure awaits!

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## MichTron

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ORDERS AND INFORMATION (313) 334-5700



## COMING ATTRACTIONS

The following products are scheduled to be reviewed in ST WORLD, Vol 1, No. 5:

SEIKOSHA MP-1300A1  
COLOR PRINTER

DAC EASY ACCOUNTING

BATTERIES INCLUDED  
DEGAS ELITE

MICHTRON  
EIGHT BALL

DATA PACIFIC  
MAC SAC

THOUGHTSPACE DEVELOPMENT  
1 MEG UPGRADE BOARD

MICRO-TIME  
INTERNAL ST CLOCK

MIGRAPH  
EASY DRAW

Plus updates on Laser printing, CD-ROM disk drives, and features on "Touch Screen" applications, digitizing video images, IBM compatible disk drives and the all new questions and answers column.



## ON-LINE



**AWNS** Atari World Networking Systems is working to eliminate PIRACY on BBS (Bulletin Board Systems), currently there are 24 members in eleven states. Interested SysOps should contact Jonathan Leventhal on Hunter's Hangout.

**HUNTER'S HANGOUT** New York  
(718) 897-5578

Supports 300/1200/2400 baud. Operates 24 hours a day and 7 days a week. Upload/download supported. Jonathan Leventhal, SysOp.

A regular update on bulletin boards  
through out the United States.

**WELL OF SOULS (WOS)** Utah  
(801) 485-6349

Supports 1200/2400 baud. Operates 24 hours a day and 7 days a week. Upload/download supported. Dave Blackett, SysOp.

**HEART OF GOLD (HOG)** Utah  
(801) 964-9764

Supports 1200/2400. Operates 24 hours a day and 7 days a week. Upload/download supported. Dave Johnson, SysOp.



## CD-ROM DISKS

by RICH TSUKIJI

CD-ROM disk drives for the Atari ST still have not reached the shelves of Atari dealers. Where are they? Almost a year has past since Grolier's encyclopedia was seen running on a ST. The reasons are due partially due to the agreement in the industry as to a standard format. Much like the format battles in the video industry. Remember a few years back when the industry was battling over the Beta, VHS, Laser and RCA's CD format for video tape players? Today we all know that VHS won and that RCA's CD was the big disaster. What happened to the lasers? They still exist and there are a few of us around that still cling to the laser player for it's superior quality audio and video. The masses chose the VHS format, not for the quality, but for the capability to record. The CD-ROM disk drive industry is fighting the same battles, what format to use, play or record (read and write) drives.

Another reason for the delay, is price and the market demand. Very little CD-ROM software is currently available for CD-ROM drives that would appeal to the masses that would entice them to part with \$700 to \$2,200 for a play only (read only) CD-ROM disk drive. This may soon change with the joint proposal by Sony and Philips of a "CD-1" standard. The CD-ROM concept takes advantage of the sophisticated digital storage and retrieval technology developed for compact audio disks. With the "CD-1" version, text can be intermingled with still or moving graphics.

It is considered likely that the industry will accept this as a standard, which means that users will be able to play compact audio disks on their CD-ROM disk drives. With the popularity of audio disks, this will give the user more of an incentive to purchase a CD-ROM read only disk drive. The more CD-ROM disk drives installed by the masses will encourage more software publishers to provide software in that format. Another incentive is that the price of the CD-ROM disk drives will drop to \$500 and eventually as low as \$250.

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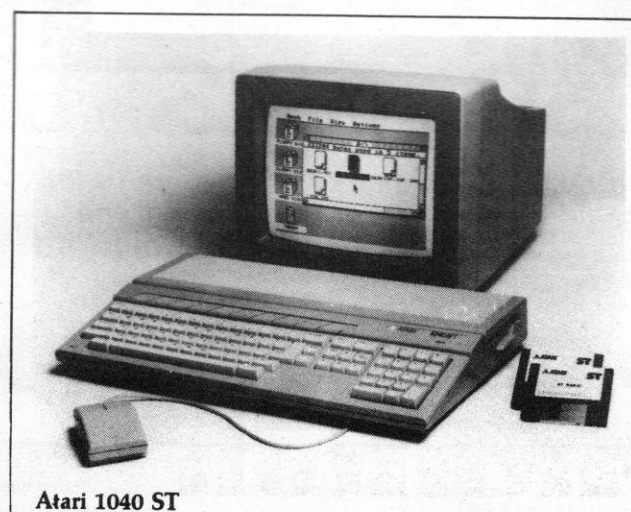
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- \* Demonstrations
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Sponsored by PORTLAND ATARI CLUB

\*Pick up coupons for \$1.00 off on show admission at your local dealer.



Atari 1040 ST

## ATTENTION USER GROUP OFFICERS

Register your group with the Atari ST Council, there is NO CHARGE to register. Receive special subscription rates for your members. Public domain library exchange and information service. Free referral service to ST Users looking for a good local users group to join.

### ATTENTION: DEALERS

IF YOU WOULD LIKE TO CARRY ST WORLD IN YOUR STORE, YOU MAY ORDER FROM ONE OF THE FOLLOWING DISTRIBUTORS OR CONTACT ST WORLD (503) 673-2259.

HORIZON COMPUTERS  
532 E. MISSISSIPPI  
DENVER, CO 80210  
(303) 777-8080

COMPUTER SOFTWARE SERVICE  
495-A BUSSE ROAD  
ELK GROVE VILLAGE, IL 60007  
(800) 422-4912  
(800) 331-SOFT (IL)

FRED BAY NEWS COMPANY  
3155 NW YEON AVENUE  
PORTLAND, OR 97210  
(503) 228-0251

ALONSO BOOK & PERIODICAL  
7670 RICHMOND HIGHWAY  
ALEXANDRIA, VA 22306  
(703) 765-1211

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ELGIN, TX 78621  
(512) 2756-7962

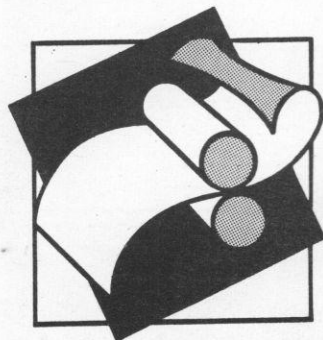
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# PrintMaster

///For **Atari 520ST**////////////////////

Lets you create your own:



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Signs  
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Calendars  
Banners**

## PrintMaster Features:

- 122 graphics and background patterns.
- 8 type fonts and various sizes and effects.
- 11 border designs to frame your work.
- Graphic Editor to make, alter and save graphics.\*
- Text Editor to enter & format text for your designs.
- Preview mode to check your work before printing.
- Save your creations and print them later.

\* Requires graphic capability, not available in CP/M version.

## Art Gallery I &

## Art Gallery II

**Expand graphic capability of PrintMaster with its companion disks called Art Gallery I and Art Gallery II, each contains 140 additional graphics for use with PrintMaster.**



Graphic samples from Art Gallery I

PrintMaster and Art Gallery I & II also available for IBM, Apple, Commodore and CP/M computers. For more information, call (415)848-6666. Send order form to: Unison World, Inc. Dept. ADS, 2150 Shattuck Ave. #902, Berkeley, CA 94704. PrintMaster, Art Gallery I and Art Gallery II are the trademarks of Unison World, Inc. Atari 520ST is the trademark of Atari Corp.

## ORDER FORM

ST PrintMaster \$39.95  
ST Art Gallery I \$29.95  
ST Art Gallery II \$29.95

Price includes shipping inside the U.S. Make check or Money order payable to Unison World, Inc. Foreign orders add \$10.00 per product. Make payments by bank draft, payable in U.S. dollars drawn on a U.S. bank. COD's and purchase orders will not be accepted with this offer.

Total amount (CA resident add 6.5% tax):

Payment: Visa MC Check Money Order Bank Draft

Card#         Exp. Date /

Name: Telephone: ( )

Shipping address:

City: State: Zip:

# E-Z Calc

BY MARK DEAL

E-Z Calc - (\$69.95), the electronic spreadsheet for Atari ST computers from Royal Software. E-Z Calc is a very powerful easy to use spreadsheet combining GEM, full function 10 key calculator and note pad into one of the most versatile spreadsheet on the market.

Applications for personal use include: check register, depreciation schedules, name and address directory, home inventory, loan amortization schedules, personal financial statements and income tax preparation. E-Z Calc is great for business uses such as: accounts payables/receivables, invoicing, job costing, payroll reporting, financial forecasting and a just about any application that requires the manipulation of numeric values.

EZ-Calc is surprisingly easy to use even for the first time user of a spreadsheet. A short step by step tutorial is included in the manual to provide you with hands on experience, in addition to 16 help boxes located on the menu bar. The easy to follow lesson will guide you through setting up a template to balance your checkbook. This short 30 minute lesson will have you understanding the meaning and value of labels and their placement. You will be creating formulas to automatically add/subtract your entries. as you progress through the tutorial you will begin to realize the value and benefits of a electronic spreadsheet in your home and business.

E-Z Calc features many more powerful functions and operators than the usual +/-. Mathematical functions such as: @ABS(x), @EXP(x), @INT(x), @LN(x), @LOG(x), @MOD(x,y) and @SQRT(x) are supported. Trigonometric functions supported are: @PI, @SIN(x), @COS(x), @TAN(x), @ASIN(x), @ACOS(x), @ATAN(x). Statistical functions supported: @SUM(list), @MAX(list), @MIN(list), @COUNT(list), @AVG(list). Financial functions supported: @NPV, @PV, @FV, @IRR and @PMT.

As you develop your spreadsheet, which can be up to 300 columns and 999 rows, you will find the unique spit screen capabilities a valuable feature. If you find yourself developing a very large spreadsheet and feel the need to take short notes on the reason or function of a cell, there is a note pad available to you so you may add a short note to each cell for future reference. The notes are automatically saved with your template.

If you have the slightest need for a spreadsheet, E-Z Calc is the product for you. Those of you who have a definite need for a powerful in-depth spreadsheet, unquestionably need E-Z Calc. For more information:

ROYAL SOFTWARE  
2160 W. 11TH AVENUE  
EUGENE, OR 97402  
(503) 683-5361



# PREVIEWS

PREVIEWS is a caption of new products for the ST. Not a review or evaluation of the product or a recommendation of its value or usefulness.

## FTL

6160 Lusk Blvd. C-206  
San Diego, CA 92121  
(619) 453-5711

**RVP (\$39.95)** - RVP is set in the not too distant future when advanced engineering will produce aircraft so responsive that no human could survive the stress of their flight. Remotely Piloted Vehicles or RPV's will keep valuable pilots safe behind the front lines flying missions from sophisticated command consoles. Aerial combat, or dogfighting, demands skill and lightning reflexes. RPV teaches dogfighting skills with an advanced hyperframe flight simulator. You can fly against simulated bogies or linkup with another computer for one on one combat against a human adversary. FTL provides the required hardware free with each game.

**MICRO COOKBOOK (\$49.95)** - Micro Cookbook comes with hundreds of proven recipes and a complete cooking database program that can search for and retrieve recipes by ingredient, category, and more. Micro Cookbook can tell you what you can make out of leftovers or suggest a new entree when you're stuck for ideas. And, you can put in your own recipes and let Micro Cookbook file them away for convenient access. Added features include menu planning, portion sizing, calorie control and even automatic preparation of shopping lists.

**Dungeon Master (\$39.95)** Step into the world of Dungeon Master and see fantasy come to life. Set in the depths of the mysterious underground, Dungeon Master puts you inside the most detailed dungeon ever created in software. Choose your comrades for this adventure carefully, because you'll need strong fighters and powerful magicians to survive. Their skills will be tested by the intricate puzzles and cunning traps hidden inside.

## CAL COM, INC.

6820-A ORANGETHORPE AVENUE  
BUENA PARK, CA 90620  
(714) 523-5353

**A-RAM (\$149.95)** Upgrade you your 520ST to the memory of a 1040ST with Cal Com's 520ST upgrade kit. Easy installation, includes J-Disk.

**J-DISK (\$19.95)** A configurable ST RamDisk program that sets the date and time and creates any size RamDisk up to the maximum Ram available.

## QUANTUM MICROSYSTEMS, INC.

P.O. Box 179  
Liverpool, NY 13088  
(315) 451-7747

**ST-NET (\$149.95)** A Local Area Network (LAN) for the Atari ST computers. ST-Net lets you share floppy disks, hard disks and printers between several computers running independently. ST-Net also lets you exchange letters

and messages using QMI's "Mail" and "Conference" desk Accessories.

## ACTION SOFTWARE

69 Clementina Street  
San Francisco, CA 94105  
(415) 974-6638

**GATEWAY (\$39.95)** A text adventure with graphics. Gateway is not a graphics adventure. The distinction here is that it is generally accepted, according to aficionados, that "text adventures" are better games. This is particularly true of "Gateway". The excellent graphics enhance the enjoyment of the game but are not integral to playing it. In fact, there is an option that permits play without graphics.

## THOUGHTSPACE DEVELOPMENT

2450 Warring Street, No. 21  
BERKELEY, CA 94704  
(415) 845-1415

**2 MEG MEMORY EXPANSION BOARD (\$N/A)** A 2 meg upgrade for 1040ST owners. The board was demonstrated at the San Jose Atari Show and is expected to sell in the \$450.00 price range.

## SOFTLOGIK CORP

4129 Old Baumgartner  
St. Louis, MO 63129  
(314) 894-8608

**PUBLISHING PARTNER (\$149.95)** - A comprehensive page layout program for the Atari ST. You can see text, rules (lines) and columns in their actual size and position on the screen as you type and edit your page. Using the Publishing Partner you can design, compose, and paste up a variety of publishing items including newsletters, forms, tables, ads, charts and more.

## STONEAGE SOFTWARE

P.O. BOX 1216  
AMHERST, NH 03031  
(603) 673-8734

**UltraCalc (24.95)** Is a 40 function scientific calculator that runs as a stand alone application or can be installed as a desk accessory. UltraCalc is available with a standard algebraic interface, or with with a powerful RPN (Reverse Polish Notation) interface. Features a unique 32 bit interger mode, that's a dream come true for programmers. Runs on color or monochrome systems.

**LEWIS123 (\$29.95)** Is the first spreadsheet for chemistry students, chemistry professors, chemists in industry, organic chemists and any person who might need to deal with covalent bonds. Lewis123 with its interactive bond sketching environment can greatly enhance a chemistry students' ability to grasp the concept of covalent bonding. It can also dramatically reduce the time necessary for an organic chemist to draw the multitude of organic structures that he may have to depict. Lewis123 is a radical departure from classic



GETTING DOWN  
GETTING DOWN TO IT. GETTING DOWN TO IT.

# Business

FOR THE ATARI ST. FOR THE ATARI ST. FOR THE ATARI ST.

**NEW!****Backup!**

by Dave Clemans

When is the last time you backed-up your hard-drive? Would you stake a month's lost labor on it? Probably not. And now you don't have to. *Backup* makes floppy disk backups of your hard-drive quickly and easily.

- Restores files from the back-up after an accident.
- Automatically organizes the entire backup procedure.
- Pull-down menus for easy use.
- Make full or partial backups by use or date.
- Make file or image backups.

Color and Monochrome . . . . . \$39.95

**NEW!****Dot Driver**

by Timothy Purves

At last, a printer driver that makes Okidata printers and C.Itoh Prowriter printers compatible with your Atari ST! *Dot Driver* processes printer output from any program using GDOS, and prints it on your printer.

Requires GDOS . . . . . \$49.95

**NEW!****Laser Driver**

by Timothy Purves

This driver makes the Quadram and Hewlett Packard laser printers work with the ST. It processes printer output from any program using GDOS, and prints it on your laser printer. Includes a special screen-dump utility.

Requires GDOS . . . . . \$49.95

**BBS 2.0**

by Timothy Purves

A Bulletin Board Service that's full featured, easy to use, and affordable? Only from MichTron! BBS turns your computer and auto-answer modem into a full-blown electronic mail and message system!

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## TELECOMMUNICATIONS

Telecommunications is beginning to become increasingly popular as more services become available on commercial databases. Banking, stock brokerage, travel, business and personal resource information from IRS tax codes to cooking are just a few of the services found on-line, plus the growing number of non-commercial bulletin board services (BBS) that are springing up all over the country run by user groups, dealers and software publishers. Still, telecommunications continues to be a mystery to many users. For those of you who may be interested in learning a little more about telecommunications in general and have had trouble understanding the jargon the following may be of assistance.

**COMMUNICATIONS PROTOCOLS:**

Your ability to use your computer to talk to other computers depends on a variety of protocols. Computers all talk different languages, have different hardware, and use different software. What makes it possible for these systems to "talk" to each other are the standard communications protocols and equipment.

**The ASCII System:** The basic thing necessary for communications between different computers is a standard system for representing data. Most computers store characters internally as binary digits ("bits") which are on or off. One character (byte) is composed of eight bits; giving the computer 256 different numeric combinations to represent characters. The ASCII (American Standard Code for Information Interchange) system

CONTINUED ON PAGE 14

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## OKIDATA OKIMATE 20

Before dot matrix printers became affordable, there were thermal printers. These printers were inexpensive to buy, but they required the use of a special silver coated paper that made them expensive to run. In addition, the paper faded and the quality for business was generally not acceptable.

The thermal printers are still around today, however with the introduction of thermal transfer printers there are much fewer around. Thermal transfer printers do not require the use of silver coated paper, however for best results a slick gloss paper is recommended. Also, nearly all of the thermal printers today will print on clear acetate to make overhead transparencies. It is recommended that the acetate be polyester based.

The printers use a heat sensitive ribbon rather than a heat sensitive ribbon like their ancestors. They create text and graphics by passing a heat producing ceramic plate back and forth over the paper. As the print head passes over the ceramic plate, it heats up and melts away a waxy ink from the ribbon onto the paper. These print heads generally contain nine heat producing elements, there are some with as many as 26.

Just as with dot matrix printers, each character is formed with dots. These dots are however very small and close together and yields a very high quality resolution. A nine pin dot matrix printer will yield a resolution of 72 to 80 dots per inch; a twenty-four pin dot matrix printer yields 180 dots per inch. In contrast, the resolution of some thermal transfer printers can be as high as 350 dots per inch.

Thermal transfer color printers use a three color ribbon (yellow, cyan and magenta) with which you can create up to seven full density colors. To increase the color range (over 30) they utilize a process known as *dithering*, (the laying down of dots of different colors close together). To generate the colors, the printer makes a pass with one color and then a second pass with another color.

The OKIDATA OKIMATE 20 - (\$268.00) is one of the printers that utilize the thermal transfer process with a 24 pin print head. It is described as

a "ribbon transfer dot matrix thermal (heat sensing unidirectional printer". The Okimate 20 is very small compared to most standard dot matrix printers. It weighs about 6.2 pounds and is a little over a foot high and only 2.5 inches wide. There is also a special printer interface available for the Atari ST which also contains a program disk to allow you to print off your screen by pressing the alternate and helps simultaneously.

The Okimate 20 uses a three color ribbon, (blue, yellow and red), and prints in black or seven colors and more than 100 different shades. As with all thermal printers it is recommended that a paper with a smooth finish be used. Paper can be single sheet, roll, tractor feed, thermal paper or transparencies. With thermal paper, you can print without a ribbon.

The Okimate 20 prints either 80 characters per second (draft mode) or 40 characters per second (near letter quality). In the draft mode, the quality of print is much like the near letter quality of most dot matrix printers. In the near letter quality mode, the quality of the print is rivals the quality of the \$1000. plus dot matrix printers' near letter quality mode.

All text and graphics are supported from direct ASCII commands or through software. In either print mode the user has available pica, elite, italics, condensed, double width and features underlining, super and subscripts, line spacing, horizontal tabs and European language letters. The Okimate 20 also has a special one key command feature which allows you to print graphics or spreadsheets sideways.

Unlike dot matrix printers the Okimate 20 is very quiet, all you hear is a slight buzz while it is printing. The quality of the print is excellent, and the colors are always very rich and bold. The OKIMATE 20 is a very affordable printer with unmatched quality that will do everything a more expensive printer will do, only a little better. Additional information available from:

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MT. LAUREL, NJ 08054  
(609) 235-2600

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- ▶ Requires modem or null modem.

Available at your local ST retailer. If you are unable to find it, then send coupon to: Action Software — 69 Clementina, Dept. N, San Francisco, CA 94105. Please include \$3.00 shipping & handling. Calif. residents please add 6.5% sales tax.

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\*Requires Epson\*\* or Epson\*\* compatible graphics printer. Other non-Epson\*\* compatibles will print up to 18 file names, but may not accept graphics.

\*\*Action Software, Atari Corp., Batteries Included, Synapse Software, Quickview Systems, Mirage Concepts, Versasoft Corp., Oxi, Inc., Regent Software and Epson Corp. respectively.

If you would like to receive a catalog of continuous computer forms and other standard forms for business (checks, stationery, accounting forms compatible with over 400 software packages) send your name and mailing address to: ST WORLD, Dept. L, P.O. Box 2310, Roseburg, OR 97470.

If you would like to receive promotional mail from ST suppliers, send your name and mailing address to: ST WORLD, Dept. M, P.O. Box 2310, Roseburg, OR 97470



# PERSONAL MONEY MANAGER

by JUDI LAMBERT

**PERSONAL MONEY MANAGER** - (\$49.95) is a personal or small business bookkeeping program that utilizes the double entry bookkeeping method. Using Michtron's Personal Money Manager is very easy and will keep you right on top of your finances.

Many users that I have talked to found Personal Money Manager to be difficult to use and felt that maintaining their finances with the program proved too difficult and complex. A friend of mine gave the program to me because she was totally frustrated with it. My first reaction was why should I bother with a program that no one else seems to like and filed it away on my bookshelf to gather dust.

Last week-end after I had completed my weekly expense reports, checkbook reconciliation and routine bill paying duties I thought how great it would be to computerize my finances. Having no other bookkeeping program available, I dusted off Michtron's Personal Money Manager.

As with most users, I paged through the documentation and then proceeded to load the program. There my frustrations began and soon found myself in total agreement with my friend and returned it back to my bookshelf. Later that evening I decided that I would go over the program again and document all the problems with the program and fire off a terse letter to the company about all of the problems with the program and urge them to "get with it!".

This time I read through the documentation from cover to cover and even took time to reread portions to make sure I understood the program thoroughly. (I didn't want to put my foot in my mouth.) I discovered that my first error was my eagerness to start entering data in the program. The first time I had tried to create accounts as I needed them and then immediately start entering data. To make Personal Money Manager work properly and simply you must prepare!

I sat down with pencil and paper and reviewed my current financial situation. Listing first, all my income sources (taxable and non-taxable), my credit card and bank loans (Visa, Sears, car loan, etc), and then made a list of all my personal expenses by category, (groceries, gas, entertainment, etc.), and then a list of my re-imburseable business expenses, (car gas, entertainment, travel, etc.). I found that by going over my canceled checks, expenses vouchers and credit card statements it was much easier to make my list. After completing my list, I then went over it to consolidate some expenses and to create ones for things I just wanted to keep track of for personal curiosity (How much I spent for

After reviewing these reports, you will be ready to start entering your checks, expenses, etc. Be cautioned that you should have your checkbook reconciled first as the program does not have a checkbook reconciliation function. (This is one flaw, but can be readily overcome if you take advantage of the single account report function.) After you have completed making all your entries, again print out the reports that you first printed out. Compare them and if no entry mistakes were made, you should now be on top of your finances and have a easy to use bookkeeping system.

My pet peeves about the program are: (1) No check reconciliation function; (2) Reports must

be sent to the printer; this should be optional, as there are many times you just want to view a report and not have a hard copy; (3) keeping my cat, Trudy, was one.).

Satisfied with my list and confident that I had covered all my finances thoroughly, I assigned account numbers to each of them and identified each as to whether it was a debit account or credit account (Checking, savings, cash and charge accounts are treated as debits and all others are credits.) and noted the balances to each if applicable. I would like to note that this little list making task took me the better of 2 hours. I then loaded Personal Money Manager.

My first task was to use the "Account Maintenance" feature and enter my list. Here, the program also allows you to enter a budget amount, if you want to try living on one! (I passed). Next, instead of beginning to enter your transactions, go to the the print report mode (make sure your printer is on-line) and print out the account summary report. This will give you a hard copy print out of all of your accounts. This should match your handwritten list. Each account will be listed with type of account (checking, savings, income, charge or expense), next, the account number you've assigned, next, the name of the account, next, the year to date balance (this should also correspond with your handwritten list) and lastly, whether it is a debit or credit account. So that you have an idea what the reports will look like, I suggest you print out at this time the "Expense ledger" and the "Annual Budget" reports. I would also recommend that you print out the "Single account" report selecting your checking account as the single account. This report will look identical to the "Monthly detail" report. I do not recommend that you print the "Monthly detail report as it will only use up a lot of paper and only give you a identical report to the "Single account" above, only for each account!

The single account report should have the option of printing current month or selectively between months or all months. (4) The same feature should be included in the monthly detail report. (5) The account maintenance function has the capability to view individual accounts and scan through the each account one by one, but only provides the current balance of the account. (6) The transaction query allows you to view each transaction individually and you can scan one by one by date only. Pet peeves 5 and 6 would be resolved if reports could be sent to the screen.

Overall, the program's shortcomings do not alter the fact that it is easy to use if, properly set up by the user and does keep you up to date with your finances. It has certainly helped me and has saved me a great deal of time in preparing my expense vouchers. For \$49.95, even with it's shortcomings and my pet peeves, I still think it is a very good bookkeeping program and hope that Michtron will consider enhancing the program in the future with the elimination of my "Pet Peeves". The program is published by:

MICHTRON  
576 S. TELEGRAPH  
PONTIAC, MI 48053  
(313) 334-5700



**DEGAS** *Elite*

by MARK DEAL



DEGAS *ELITE* - (\$79.95) from Batteries Included is Tom Hudson's enhancement of DEGAS. Tom has added every feature that you wished you had available in the original DEGAS. I have a "beta" version of the soon to be released Degas Elite, all of the features were not implemented in this version, but of the features that were, were absolutely fabulous!

Some of the enhancements include: multiple screens (up to 8, depending on memory available), ability to move all or part of any graphics or text between screens, full rotation, H-Skew, V-Skew, Distort, multiple copies, magnification modes from 3X to 12X, animation and cycle and more!

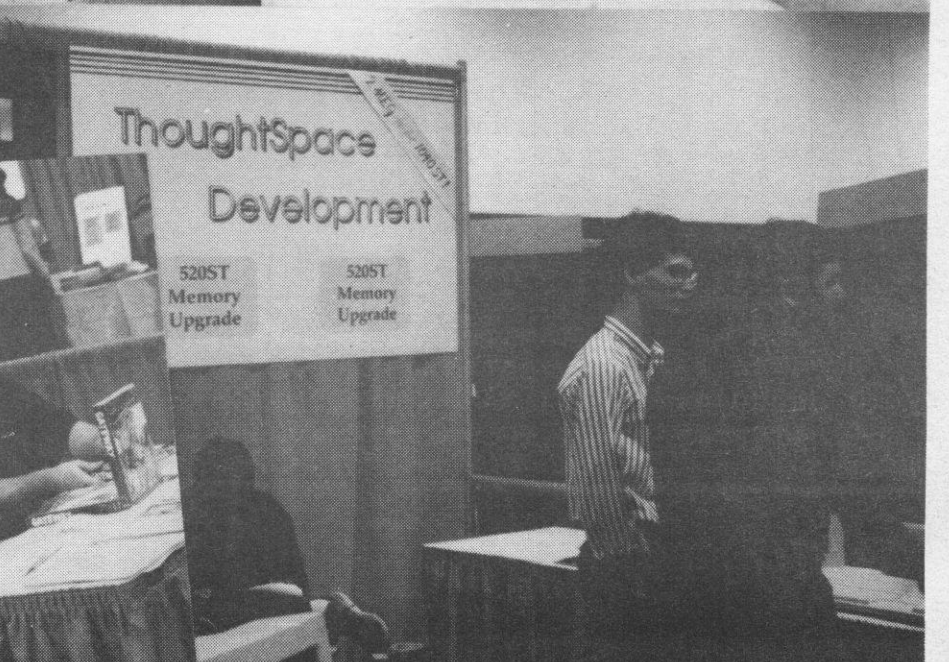
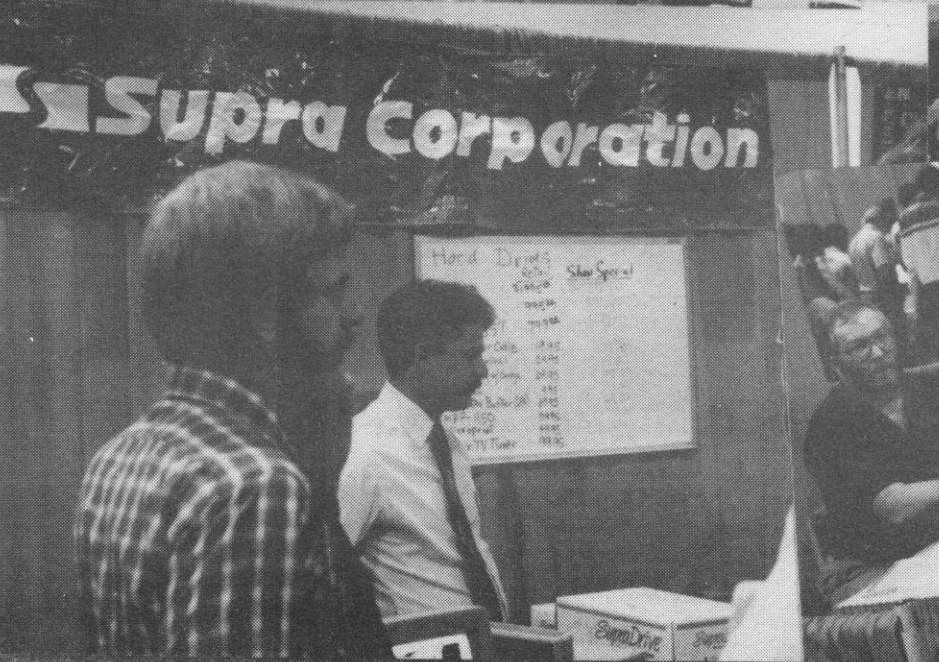
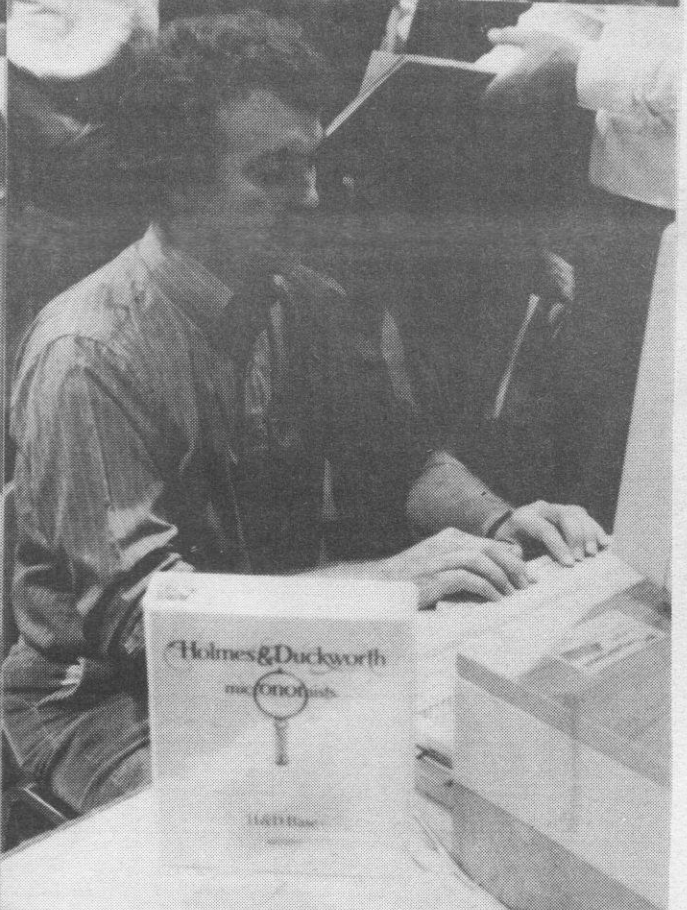
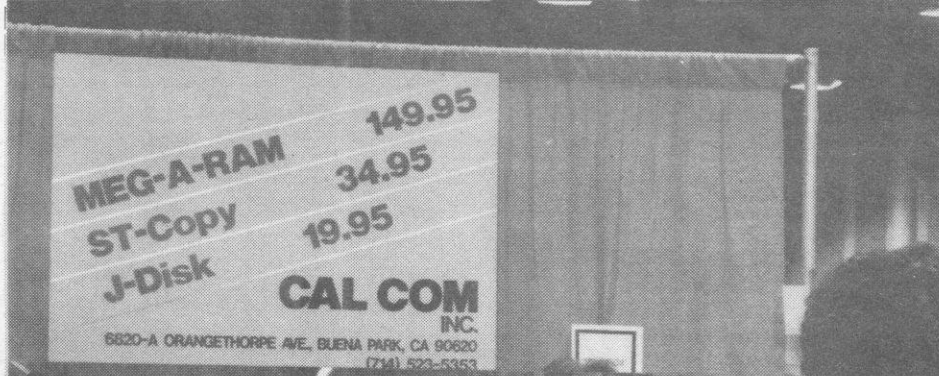
A more complete description and review will be provided in the next issue of ST World. But for now, I wanted to show you one of the capabilities of the enhanced DEGASELITE.

Figure 1 is half of the original picture, this portion was "clipped" from the picture and moved to a second screen. On the second screen, the figure was skewed and then stamped over the screen to create the multiple images as shown in figure 2. This is just a small sampling of the capabilities of the enhanced DEGAS. A more detailed and complete review will be presented in the next issue of ST World. If you do not want to wait, place your order now and you should have the completed version by the time I do. To order contact:

BATTERIES INCLUDED  
30 MURAL STREET  
RICHMOND HILL, ONTARIO  
CANADA L4B 1B5  
(416) 881-9941

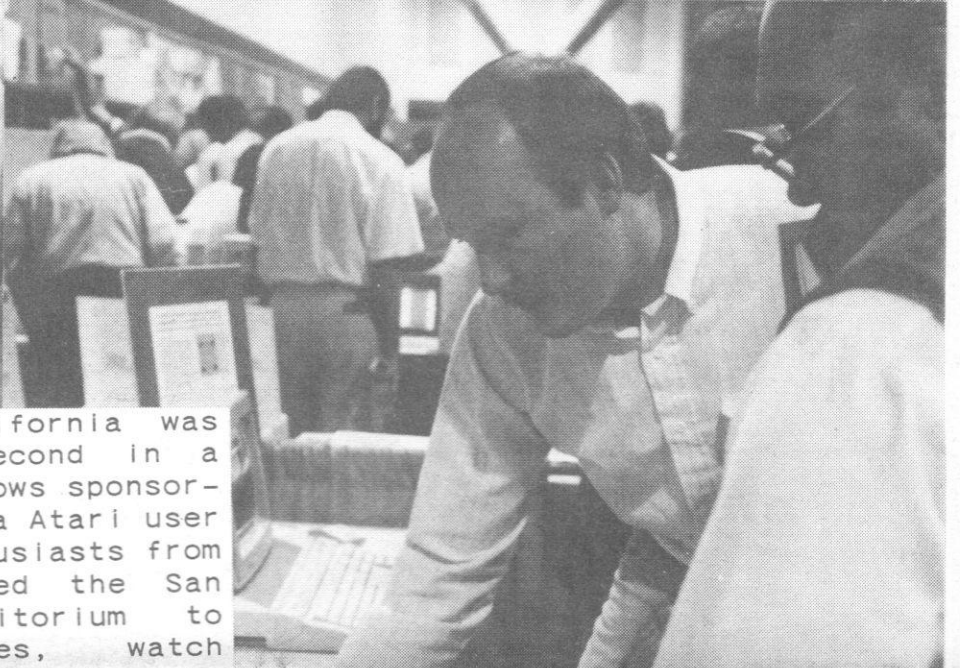
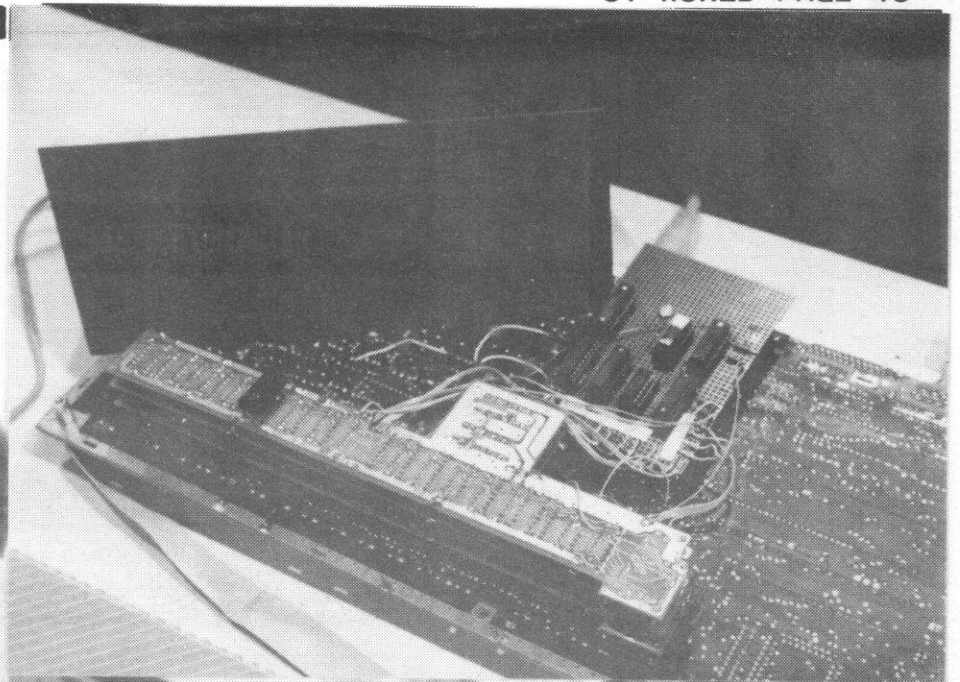








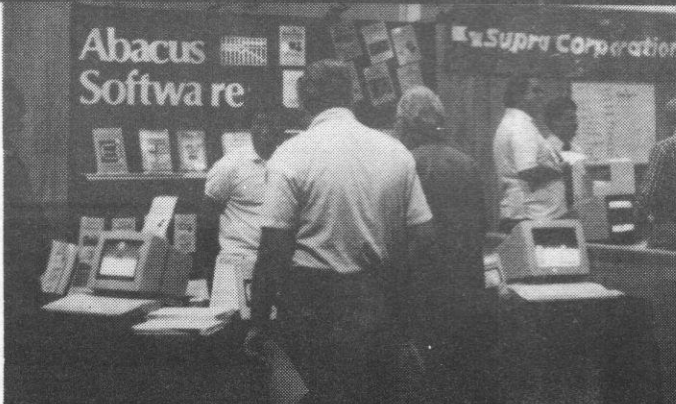
# ATARI SAN JOSE



San Jose, California was the site of the second in a series of Atari shows sponsored by local area Atari user groups. Atari enthusiasts from the bay area filled the San Jose Civic Auditorium to attend conferences, watch demonstrations of new products, shop, ask questions and in general enjoying the weekend with fellow Atarians.

Some of the participants of this show were: Electronic Arts, Batteries Included, Antic, Royal Software, Electronic Music Publishing House, ThoughtSpace Development, Michtron, Abacus, Action Software, Regent Software, SoftLogik Corp., Cal Com Inc., Quantum Microsystems Inc., FTL, Access to Software, San Jose Computer, Analog, OSS, SSI, Beckmeyer Development, Quickview Systems, Supra Corp, Data Pacific Inc., Haba Systems, Micro-Time Electronics, Generic Software and H&D Software.

Data Pacific's introduction of the MAC SAC and ThoughtSpace Development's 1 MEG upgrade board for the 520ST & 2 MEG upgraded 520ST drew hosts of buyers and techies. FTL dazzled the gamers with their demo of RPV connected to two ST's. Lines 10 deep formed to get a chance to play one-on-one in aerial combat. The soon to be released Batteries Included DE GAS Elite was being demonstrated by talented author Tom Hudson.



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## ThoughtSpace Development

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#### TELECOMMUNICATIONS - CONTINUED FROM PAGE 8

assigns the first 128 codes to a unique character or control function. This ASCII code represents the same character on all ASCII computers. The first 32 ASCII symbols are called control codes; they control standard screen display functions and other communication tasks. The remaining 96 symbols are the letters of the alphabet in upper and lower case, numbers, punctuation, and other standard keyboard symbols. The last 128 codes are not covered by the ASCII system do not have a universal meaning. Some computers use them for graphics or extra character sets.

**DIGITAL COMMUNICATIONS:** We now need a standard way to transmit these ASCII codes to the remote computer. We start by sending the bin-

ary data out of the computer in electrical pulses. These electrical pulses are transformed by the modem into sound waves to use the phone lines. On the receiving end, the sound waves must be changed back into electrical pulses by the receiving modem and then received back into the computer in binary format. We send each binary bit of the character one at a time in sequence. This is called serial transmission. The rate at which we send these binary data bits is called the baud rate, measured in binary digits per second (300 baud means 300 bits per second).

The data cannot be sent in a raw stream of data because the receiving computer could get its timing off and receive unintelligible data. To solve this problem, we send each character in a data frame that can be distinguished by the receiving computer. The data frame consists of four distinct parts. The first is the start bit. This single binary digit tells the receiving computer that a new data frame is coming. After the start bit comes the data "word". Each word is a group of seven or eight binary digits which represent a character or code. After the word comes the parity bit, if any. The parity bit is occasionally used to check the accuracy of the transmission. The last element of the data frame is the stop bit. Stop bits tell the receiving computer that the data frame is done, and that it can start looking for a new data frame.

Computers can communicate with each other in different ways. The most common are call full duplex and half duplex communications. Full duplex means that both systems can talk to each other at the same time. In full duplex, the receiving computer receives your data and then echoes it back to you. This is how you get your own screen display. Full duplex allows for error checking of transmissions because of the echoed data. This mode is sometimes known as "EchoPlex".

Half duplex means that the computers take turns talking. In half duplex the transmitted characters are not sent back. Instead, your computer displays them as it sends them. Full duplex is far more common than half duplex. You can tell if you are in the wrong mode by two different display problems. One is when you type a character and two of them appear on the screen; this means that you should be in full duplex. If you type a character and nothing appears on the screen, you should change to half duplex.

**TRANSFERRING FILES:** Most modem users are interested in transferring files or programs. Sending a file to a remote computer is known

CONTINUED ON PAGE 16

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## MAGIC SAC

CONTINUED FROM PAGE 1

Due to licensing problems incurred with Apple, the Magic Sac does not come with the necessary Macintosh ROM chips to make it work. A user will have to obtain the Apple ROM chips from other sources. The two chips required from the Machintosh are called "64K BOOT RAMs," (one each Apple part #324-0220 and #324-0221). In addition, the newer "128K BOOT ROMs" used in the Macintosh Plus will not presently work with the Magic Sac. Neither will copies of the Machintosh ROMs. The custom Magic-Loc scheme enables only original Macintosh ROMs to work. There are several sources of the required ROM chips from entrepreneurial individuals that prepared for the introduction of the Magic Sac and Apple dealers (the latter is a questionable source). The price for the chips are reportedly in the \$20. - \$30. price range.

Problems may arise with software compatibility with programs that use copy protected disks and cannot be transferred to the Atari disk format. Another problem area may be with programs that directly access screen memory or the Macintosh ROMs.

On the brighter side, the Machintosh runs at 5.9 Mhz (millions of cycles per second) and the ST runs at 7.9 Mhz and runs Macintosh software 20% faster when using the Magic Sac. A 520ST will emulate a 128K or 256K Macintosh and the upgraded 1 MEG 520ST or 1040ST will support the 128K, 256K, 512K, 912K Machintosh or special 512K with MOTIVATOR custom software. The motivator is a RAMDISK like performance enhancement for the 512K simulation. It reads the 400K boot diskettes completely into memory and executes from this diskette yielding very high performance improvements:

(A) Booting system from Desktop (normal): 23 seconds, with Motivator: 4 seconds;

(B) Run MacPaint from desktop (normal): 18 seconds, with Motivator: 3 seconds;

(C) Return to Desktop from MacPaint (normal): 23 seconds; with Motivator: 4 seconds.

Both the Magic Sac ST system and the Macintosh support 400K single sided 80 track 3.5" diskettes. The advantage to the Magic Sac ST system is that it is compatible with the IBM 3.5" format. Presently the 800K Macintosh diskettes and hard disks are not supported by the Magic Sac ST system.

The operating system known as Apple Finder or MFS system is supported by the Magic Sac. This must be purchased from a Apple dealer and Data Pacific has recommended that Finder 4.1 version be used for maximum compatibility. Data Pacific expects to be supporting the newer versions of Apple Finder known as the HFS System in the near future.

If the San Jose show sales are any indication of the interest in Magic Sac enhanced STs, all that can be said is if you want one, CALL NOW! to place your order. For additional information contact:

DATA PACIFIC, INC.  
609 E. SPEER BLVD.  
DENVER, CO 80203-4240  
(303) 733-8158

CURIOUS ABOUT THE 2 MEGABYTE 520ST PICTURED ON PAGE 13...CALL (415) 845-1415



## SECURING YOUR DATA

BY TOM PEARCE

As more and more Atari STs reach the desks of businesses and professionals, the need for the security of data becomes increasingly more important. There are peripherals that secure the computer system, but until now there has not been a program that would allow the securing of data files from unauthorized eyes. Stone Age Software, Inc. has resolved the problem with the introduction of ENCRYPT - (\$19.95) for the Atari ST.

ENCRYPT is a very fast and easy to use program, it is so simple you may find your self encrypting all your files. The method used to secure the data is virtually impossible to access without knowing the password. The password you designate is 6 characters and maybe alpha or numeric or a combination of both. Care must be taken in selecting and preversing the password. There is NO WAY to obtain the password if you forget it. Your encrypted data is virtually LOST

A procedure known as "High water marking" is used allowing for layers of security if the data is very sensitive. It is not necessary, but may be comforting to know it's available. High water marking to the writing of data of data back to your disk in the exact same place as the original file data was located. If you feel you need to layer your security deeped, you are able to encrypt the encrypted file with as many different passwords as you feel is necessary.

To unencrypt a file, you simply follow the same procedure as you went through as you did when you encrypted the file originally. If you added more than one layer of encryption, you must unencrypt in the exact same sequence in reverse.

Encrypt is a very inexpensive way to secure your sensitive data, easy and fast to use and highly recommended if you have or feel you have this need. For additional information on Encrypt, contact:

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P.O. BOX 1216  
AMHERST, NH 03031  
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# GATEWAY

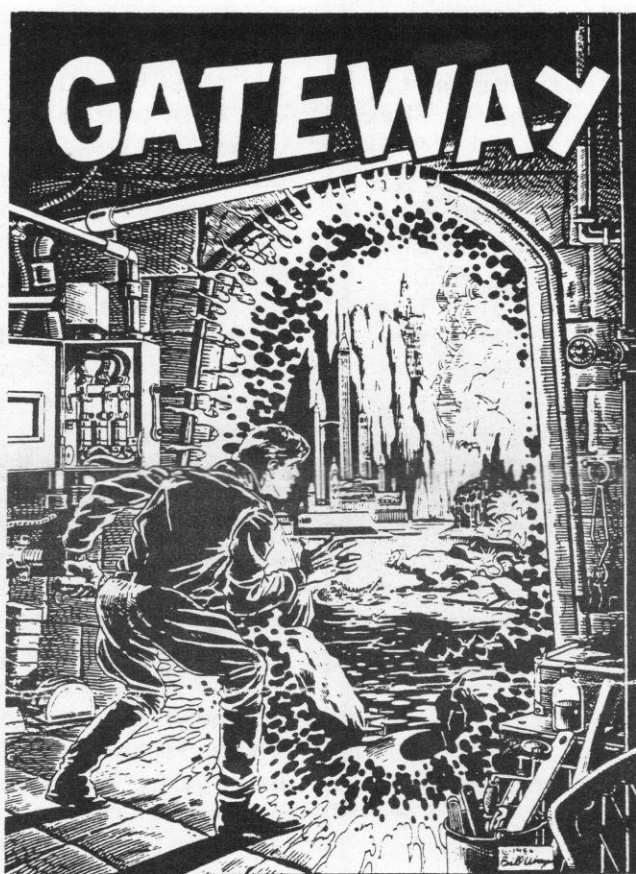
by JUDI LAMBERT

**GATEWAY** - (\$39.95) is a text adventure game with optional graphics released by Action Software. A unique feature of Gateway is the optional graphics feature. Die hard adventure players prefer straight text adventure games, whilst the rest of us prefer to have the assistance of graphic screens. Gateway provides the best of two worlds by providing the graphics as an option, play it your own way.

Throughout the game there are help menus to aid you. Three various levels of help are available: subtle, being the least help, substantial or the answer. However, each time you access the help menu you will lose 1 point, whether you take a hint or note. Lose 2 points for taking a subtle hint, 5 points for substantial and 10 points for the answer. A perfect score is 1500 points.

If your are unable the finish the game, there is an option to save the game to disk and restart where you left off at a later time. There is also an option to allow you to a transcript of your entire game as you play, this is especially useful when you restart your game or get lost.

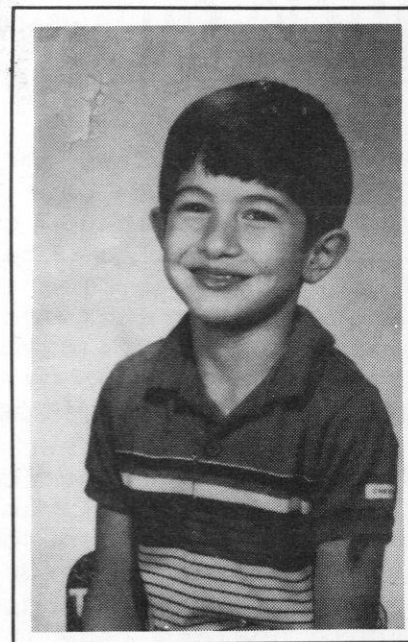
The premises that the game is centered around is a building that was left to you by a great-uncle that had a reputation for being a recluse as well as a worldly traveler who made his fortune trading in antiquities. In going through the building, you find very little evidence of the so called wealth he was supposed to have accumulated. Then you find a old journal which contains information of the "Gateway", a gateway to other worlds, other dimensions. As



you continue to read your great-uncle's journal, a piece of paper falls from it to the floor. Upon reading it, you discover that your great-uncle had learned of a dangerous threat to the worlds beyond and quite possibly your own. Unfortunately, the final part of the letter is smeared and you can not read how to access the gateway. You know that the secret lies within this old building. Your adventure now begins.

If you are prepared to journey through the unknown, call:

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Hi ! everyone, I was not able to write my article for this issue cause I went to Hawaii and missed the first week of school. I have so much homework to do that I don't have any time to play any games. I hope to get caught up and be able to write a story in the next issue...Bye for now.

*Richie*

TELECOMMUNICATIONS - CONTINUED  
FROM PAGE 14

as known as "uploading" and receiving a file from a remote computer is known as "downloading". Programs that support both uploading and downloading and can use an error-correction protocol known as "XMODEM" result in flawless transfers. XMODEM sends data in small "blocks" and then sends a "checksum" character. The checksum is the sum of the ASCII code of each character sent in the block. The receiving computer also checksums the block and compares its result to the checksum supplied with the block. If they are different, the block is transmitted again. Xmodem also knows automatically when the end of the file has been received and can end the file transfer and return to normal terminal mode. These are the main elements of communications protocol.

This information is provided through the courtesy of SUPRA CORP. Supra Corp publishes a terminal program known as "OMEGA TERMINAL" and is bundled free with their 300ST and 1200ST modems. Omega Terminal is also available directly from Supra Corp for \$39.95 and is fully GEM based, and supports both uploading and downloading and can use the error correction protocol known as "XMODEM".



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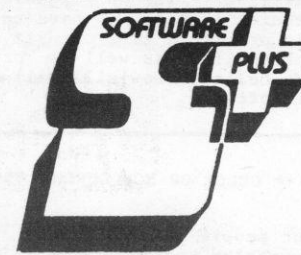
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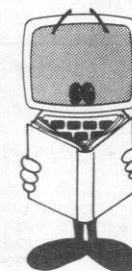
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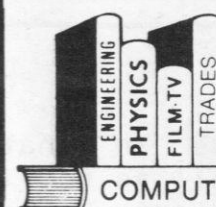
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CONTINUED FROM PAGE 7

**PREVIEWS**

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**REGENT BASE** - (\$99.95) A GEM database product which includes a full procedural language. The procedural language gives business users a quick method for producing their own applications. Regent Base was written specifically for the Atari ST and by utilizing its Forms Editor, one can easily utilize GEM windows, editable text fields, mouse buttons, output windows and graphic text strings.

Included are Personal Mailing List Manager and Personal Checkbook Manager applications for the new user. Additional features include programming examples, merge capability with Regent Word II, multiple sorting of three fields, unlimited B=Tree indexes and advanced word processing features in report formats.

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**ST BASIC to C** - (\$19.95) The BASIC programmers answer to learning to upgrade to 'C' programming. With ST BASIC to C, you can learn to program in 'C' much faster. Parallel examples demonstrate techniques and constructs in both languages. All 'C' program listings contained in the manual are available on an SF354 formatted floppy disk for an additional \$14.95.

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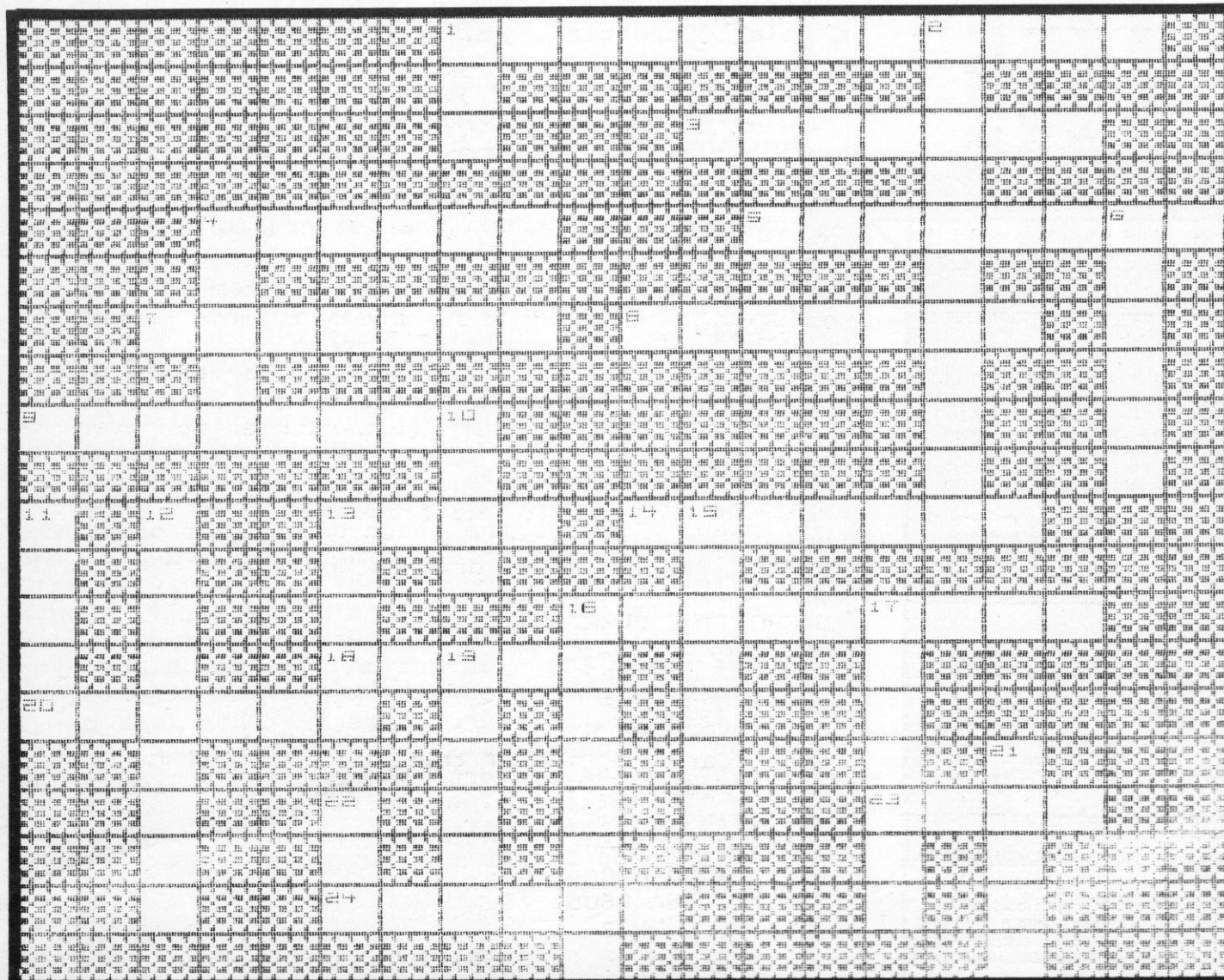
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**MT C-SHELL** - (\$129.95) Is a multiuser/multitasking operating system that runs TOS programs in a fully TOS compatible file system. GEM is supported on the main system console, while another user operates from any standard ASCII terminal in a Unix style environment, using the powerful C shell to run an assortment of Unix-style tools included in the MT C-Shell package and other TOS programs like

CONTINUED ON PAGE 23



## ST WORLD CROSSWORD PUZZLE CONTEST



FINALLY A CONTEST FOR EVERYONE! You don't have to be a programmer or an artist to enter, although you can be. Simply complete the crossword puzzle and send in your answers. All entries with the correct answers will be eligible for our drawing for a pocket TV. Sorry, but there is only ONE WINNER. If the response is good, we will continue with more crossword puzzles, so work the crossword puzzle now! and send in your entry TODAY!

ALL ENTRIES MUST BE POST-MARKED BY NOVEMBER 20, 1986 TO BE ELIGIBLE

WINNER WILL BE ANNOUNCED IN ST WORLD VOL 1, NO. 6

WIN WIN WIN  
WIN WIN WIN

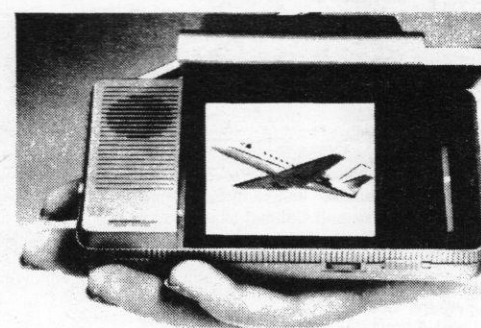
## ACROSS CLUES

1. Manufacturer of 1 meg upgrade board for 520ST.
3. Publisher of "Word for Word"
4. Royal Software's spreadsheet program
5. Publisher of "MAXPAK"
7. Publisher of "Easy Draw"
8. 'C' Language
9. Batteries Included scheduling program
13. Media of storage for data
14. Abacus wordprocessing program
16. Mac Sac turns ST into a compatible one
18. The "COMPANY"
20. Leading reference book publisher
23. Name of graphics figures on screen
24. The name of the freighter in "Frozen Legacy"

## DOWN CLUES

1. Acronym for operating system
2. Unison World's graphics program
4. The enhancement of DEGAS
6. Author of Electronic Arcade column in ST World
10. Quality Micro System's laser printer
11. Leading hard disk drive manufacturer
12. Name of color thermal printer
13. Tom Hudson wrote this leading graphics program
15. Name of program to secure your data files
16. Publisher that has the most titles for the ST
17. The guiding light of the "Company"
19. Publisher of "Gateway"
21. Part of the name of the leading current information news source for the ST
22. Only distributor to produce a consumer edition software directory for ST (acronym)

## CITIZEN



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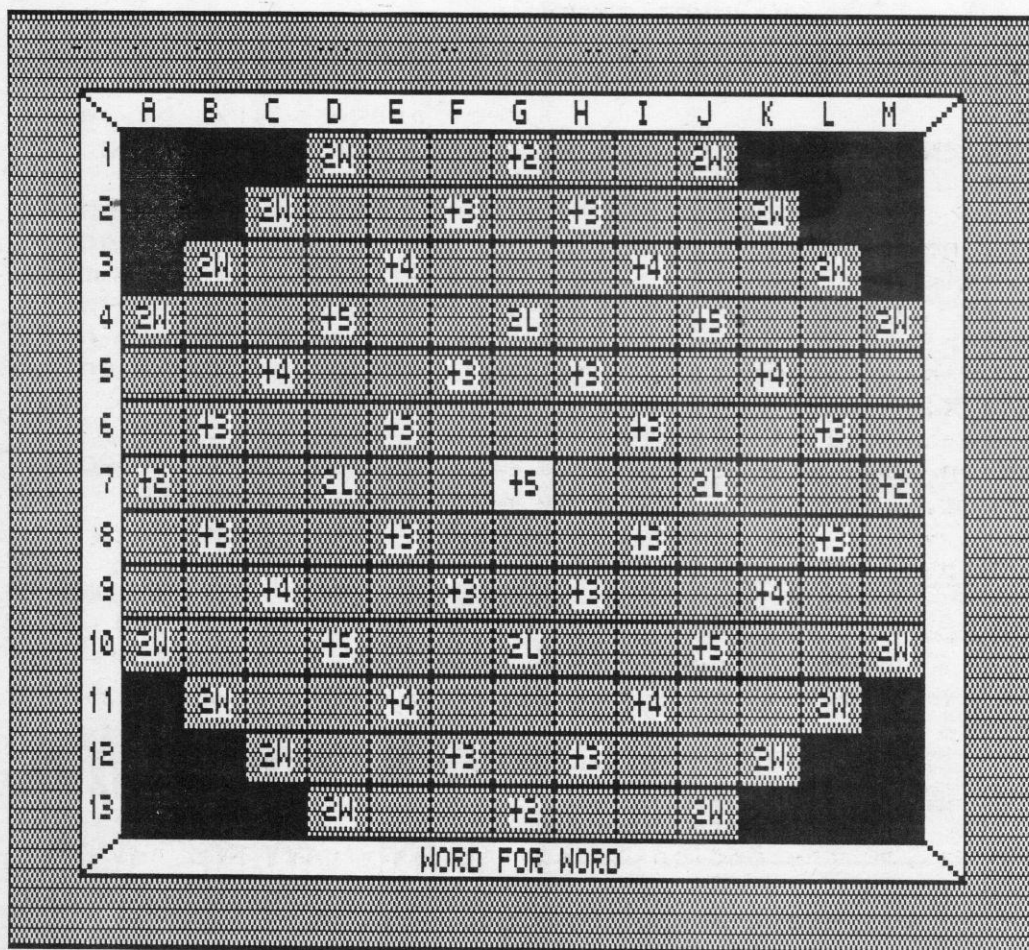
CONTEST ENDS

NOVEMBER 20, 1986



# WORD FOR WORD

BY JUDI LAMBERT



Word for Word, a great new family board game from Bayview software (\$39.95). If you like to play "Scrabble", you'll love Word For Word. The game may be played by one to four players on a monochrome or color monitor.

Playing against the computer the player can set the skill level of the computer to more closely match their own. The player also has the option to put a time limit on how long the computer can crunch the letters to form a word to play.

Unlike the board game Scrabble, on Word for Word there are several board lay out configurations to use. Bayview also provides a program to design your own board lay out configuration, set letter and word values as well as determining the number of letter tiles each player will have in their rack. All user designed boards may be saved to disk for future use.

A sample screen (standard board shown in figure) displays the board configuration on the left side of the screen. The right side is the playing area where most of your activity will occur. The current player's name will appear with their playing letters displayed below their name. The hide option is to blank you letters from the screen to prevent other players from seeing your letters. This option I found to be totally useless, other players would see the letters before I had a chance to hide the letters. The shuffle option is used to rearrange the letters in your rack, much like when playing Scrabble you move your letters around the rack to help you make up words.

continued on page 21

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☐ F. Distributor, Wholesaler and/or Manufacturer's Rep.  
☐ G. Manufacturer and/or Supplier  
☐ H. Independent Reseller  
☐ I. Systems House  
☐ J. Value-Added Dealer  
☐ K. Consultant  
☐ L. Software House  
☐ Z. Other (please specify)

2. Which best describes your title? (Check only one.)

- ☐ A. Owner, Partner, President  
☐ B. Vice President, General Manager, Director  
☐ C. Marketing Manager  
☐ D. Merchandise Manager  
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☐ G. Buyer  
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☐ 09. Educational

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☐ 15. Disk Drives  
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☐ 17. Board Level Products

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☐ 27. Education/Training  
☐ 28. Software/Systems Design  
☐ 30. Other (please specify)

4. What is the size of your outside sales force? (Check only one.)

- ☐ A. 1-4  
☐ B. 5-9  
☐ C. 10-19  
☐ D. 20-19  
☐ E. Over 50  
☐ F. None

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☐ B. No

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☐ 02. \$250,000-\$500,000  
☐ 03. \$500,001-\$1,000,000  
☐ 04. \$1,000,001-\$5,000,000  
☐ 05. Over \$5,000,000  
☐ 06. None of the above

7. Which of the following systems does your company offer? (Check all that apply.)

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☐ 03. Atari  
☐ 04. AT&T  
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☐ 06. Hewlett-Packard  
☐ 07. Radio Shack/Tandy  
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☐ 09. Televideo  
☐ 10. NCR  
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CONTINUED FROM PAGE 3

## DATATRIEVE

databases. Included are masks to save you the effort of setting up commonly used databases and as an aid to help you visually and practically design your own. The masks are: Address (name and address directory file), Auto-main (to keep track of your auto maintenance), Homeinve (inventory your possessions for insurance, wills, etc.), Newtest (a collection of Abacus ST books and software), Recipefi (save your recipes), Record (record and tape collection), and Stamp-col (especially designed for stamp and coin collections). In addition, there is a printer mask design for printing to 3X5 file cards and Rolodex cards. You will be able to print any of your files on file or Rolodex cards.

DataTrieve is an example of the excellent quality application software now available for the Atari ST at a price under \$50.00.

ABACUS SOFTWARE, INC.  
P.O. BOX 7219  
GRAND RAPIDS, MI 49510  
(616) 241-5510

CONTINUED FROM PAGE 20

## WORD FOR WORD

After you have decided on your word to play it is entered in #1 and then the direction of your word is indicated in #2. Next you move your mouse to the square on the board that you want your word to be placed. Once you have placed your word, the other players are given the opportunity to challenge your word. Once the word is accepted, the computer will replace the letters you have used and tally your score. We have enjoyed playing Word for Word and highly recommend it for great family entertainment. Suggested retail is \$39.95, additional information is available from:

BAYVIEW SOFTWARE  
177 Webster Street, Suite A-295  
Monterey, CA 93940



Unauthorized copying of software is illegal. Protect the ST software source. Make only back-ups for your own personal use!

## SUNDOG

### the FROZEN LEGACY

BY JOYCE FREEMAN

**SUNDOG: FROZEN LEGACY** by FTL Games/Software Heaven, Inc. is a animated science fiction adventure game that with a little arcade action thrown in.

You are the heir to the **SUNDOG**, a one man star freighter. It is your mission to fulfill a contract to aid in the building of a colony for a religious group. This entails buying the materials and supplies, delivering them to the colony and then transporting the colonists there. A seemingly easy task, however the boys at FTL throw you a curve. One, you only know that the colony is named "Banville" and it is located on some planet called "Jondd". Next buying the necessary goods, you are initially provided with adequate funds, however, you are also required to pay for things such as fuel, spare parts and repairs for your freighter. Also, you must defend yourself from pirates that want to take your cargo and muggers wanting your cash. Since you are human and a one man crew, you'll need to eat and sleep while these rogues are on the prowl. That's the basic scenario for your little adventure.

On your first adventure you will be starting your first game. The "Sundog: Frozen Legacy" adventure is not one that you will most likely finish on your first round. FTL graciously provides you the option of saving your game and then restarting where you left off at another time. Frustration may cause you to start a new game and when you later are more in control of yourself go back and play your last game. FTL has, in consideration of your nerves and physical well being provided the option to start and save and replay as many different games as you have the intestinal fortitude for. (I now have a wonderful library of games in various stages of completion).

The game itself is controlled with the mouse, using the left and right buttons for various functions. On screen you are provided very graphically with colorful screens which show your physical and financial status. As you move around your freighter you will be required to examine your engineering bays (6), the ship's stores, locker hold and pod locker, each graphically depicted, a special zoom feature allows for closer inspection. Your navigation console also with zoom feature provides you with three navigational displays. A 3D star map display, a star system map and a planetary map. Your tactical station also with a zoom display, provides you with your weapons status, fuel level, general condition of your freighter and radar system.

As you visit the various planets in search of goods and your "lost" colony, the funds that you have available to you are located in local banks which you can not transfer from planet to planet. You must withdraw the funds and transfer them yourself and be cautious of the muggers who want to take it away from you before you can redeposit the money in a bank on the planet you are going to. While you are on the ground you, if you have prepared you will have a laser gun and shield to defend yourself.

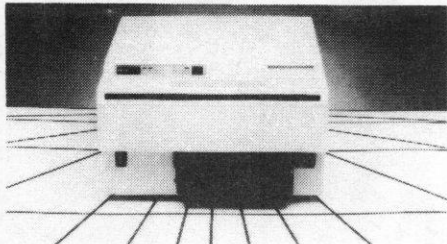
To survive the adventure and be successful in the completion of your contract, you must learn to be a skillful trader, buying and selling at a profit. Keep your ship in good repair and well fueled as your journey will take you to over 50 cities on 18 different planets in quest of your cargo.

Sundog is a fantastic game, it will keep you entranced for hours, keep your adrenaline flowing and bring intense frustration to your mind...

**SUNDOG is great, buy it, you'll love it!**

One last note, the colonists that you are to pick up and transport to the colony. They're located in warehouses scattered all over the galaxy, you have to find them and they're frozen! Hence, the "FROZEN LEGACY".





**QMS** QUALITY MICRO SYSTEMS, INC. **STANDARD  
LASERGRAFIX FONTS**

The KISS laser printer from Quality Micro Systems (QMS) has generated numerous phone calls from dealers and end users. Most of the calls from end users were to verify that we were using the laser with an Atari ST and for requests of sample print outs of the various resident fonts. Printed below are the standard KISS fonts:

EDP Font  
Font #10 (SRDP) 8 point

ABCDEFGHIJKLMNOPQRSTUVWXYZ  
TUVWXYZ [ ]; ' | abcdef  
ghijklmnopqrstuvwxyz  
0123456789; - = ' , . \ ?  
! @ # \$ % \* ( ) \_ + ~ { } : " / < >

EDP Font  
Font #10 (SRDP) 8 point

ABCDEFGHIJKLMNOPQRSTUVWXYZ  
TUVWXYZ [ ]; ' | abcdef  
ghijklmnopqrstuvwxyz  
0123456789; - = ' , . \ ?  
! @ # \$ % \* ( ) \_ + ~ { } : " / < >

Q- Typewriter Italic  
Font #444 (QTYI) 10 point

ABCDEFGHIJKLMNOPQRSTUVWXYZ  
TUVWXYZ [ ]; ' | abcdef  
ghijklmnopqrstuvwxyz  
0123456789; - = ' , . \ ?  
! @ # \$ % \* ( ) \_ + ~ { } : " / < >

Q- Typewriter Medium  
Font #404 (QTMD) 10 point

ABCDEFGHIJKLMNOPQRSTUVWXYZ  
TUVWXYZ [ ]; ' | abcdef  
ghijklmnopqrstuvwxyz  
0123456789; - = ' , . \ ?  
! @ # \$ % \* ( ) \_ + ~ { } : " / < >

**Complex Roman Bold**  
**Font #328 15 point**

ABCDEFGHIJKLMNOPQRSTUVWXYZ  
TUVWXYZ [ ]; ' | abcdef  
ghijklmnopqrstuvwxyz  
0123456789; - = ' , . \ ?  
! @ # \$ % \* ( ) \_ + ~ { } : " / < >

Simplex Roman  
Font #16 (SIRO) 5 point

ABCDEFGHIJKLMNOPQRSTUVWXYZ  
TUVWXYZ [ ]; ' | abcdef  
ghijklmnopqrstuvwxyz  
0123456789; - = ' , . \ ?  
! @ # \$ % \* ( ) \_ + ~ { } : " / < >

Standard Roman Medium  
Font #104 (STRM) 10 point

ABCDEFGHIJKLMNOPQRSTUVWXYZ  
TUVWXYZ [ ]; ' | abcdef  
ghijklmnopqrstuvwxyz  
0123456789; - = ' , . \ ?  
! @ # \$ % \* ( ) \_ + ~ { } : " / < >  
ff fi fl fm fn — 1/4 1/2 3/4 © ® ¢ ¢ ¢

Apollo Medium  
Font #204 (APOL) 10 point

ABCDEFGHIJKLMNOPQRSTUVWXYZ  
TUVWXYZ [ ]; ' | abcdef  
ghijklmnopqrstuvwxyz  
0123456789; - = ' , . \ ?  
! @ # \$ % \* ( ) \_ + ~ { } : " / < >

Apollo Medium  
Font #204 (APOL) 10 point

ABCDEFGHIJKLMNOPQRSTUVWXYZ  
TUVWXYZ [ ]; ' | abcdef  
ghijklmnopqrstuvwxyz  
0123456789; - = ' , . \ ?  
! @ # \$ % \* ( ) \_ + ~ { } : " / < >

Standard Roman Medium  
Font #104 (STRM) 10 point

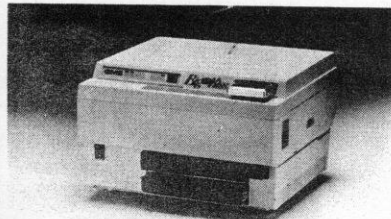
ABCDEFGHIJKLMNOPQRSTUVWXYZ  
TUVWXYZ [ ]; ' | abcdef  
ghijklmnopqrstuvwxyz  
0123456789; - = ' , . \ ?  
! @ # \$ % \* ( ) \_ + ~ { } : " / < >  
ff fi fl fm fn — 1/4 1/2 3/4 © ® ¢ ¢ ¢

Standard Roman Italic  
Font #144 (STRI) 10 point

ABCDEFGHIJKLMNOPQRSTUVWXYZ  
TUVWXYZ [ ]; ' | abcdef  
ghijklmnopqrstuvwxyz  
0123456789; - = ' , . \ ?  
! @ # \$ % \* ( ) \_ + ~ { } : " / < >  
ff fi fl fm fn — 1/4 1/2 3/4 © ® ¢ ¢ ¢

Standard Roman Bold  
Font #124 (STRB) 10 point

ABCDEFGHIJKLMNOPQRSTUVWXYZ  
TUVWXYZ [ ]; ' | abcdef  
ghijklmnopqrstuvwxyz  
0123456789; - = ' , . \ ?  
! @ # \$ % \* ( ) \_ + ~ { } : " / < >  
ff fi fl fm fn — 1/4 1/2 3/4 © ® ¢ ¢ ¢



The QMS KISS now has a big brother, appropriately named the "BIG KISS". It prints up to eight pages per minute and has 17 resident fonts. Features include 640K memory, three built-in emulations (Diablo 630, Epson FX80 and Qume Sprint), a built-in Centronics parallel interface and an optional serial RS-232 port. Graphics capability is 75, 150 and 300 dots per inch, both horizontal and vertical. There is also an optional sheet and envelope feed available. A upgrade board is available for KISS laser printers. The BIG KISS carries a retail price of \$2,995.



CONTINUED FROM PAGE 18

## PREVIEWS

compilers, linkers, and text editors. An electronic mail facility is also included which allows users to prepare, deliver, read and dispose of mail; the system automatically informs users when new mail awaits with the friendly announcement "You have mail."

**MICRO C-TOOLS** - (\$24.95) Contains additional Unix-style commands and utilities.

### QUICKVIEW SYSTEMS

146 Main Street, Suite 404  
Los Altos, CA 94022  
(415) 965-0327

**ZoomRacks II** - (\$149.95) is an integrated productivity tool based on a simple yet familiar concept. You keep your information-name addresses, invoices, correspondence, or whatever in cards in racks like those next to factory time clocks. It is easy to use, easy to visualize how to structure your problem, and it can handle an exceptionally wide variety of applications. ZoomRacks lets you zoom back to see just the first line of several cards, and several racks next to each other-compressed for display with its smart Zoom feature. (ZoomRacks I - \$79.97 / ZoomRacks I to II upgrade \$79.95).

### BATTERIES INCLUDED

30 Mural Street  
Richmond Hill, Ontario  
Canada L4B 1B5  
(416) 881-9941

**DEGAS Elite** - (\$79.95) Tom Hudson's enhancement of his famous graphics program, DEGAS. The Elite version adds advanced features such as: Up to 8 multiple work screens let you work on several pictures simultaneously, cut and paste between pictures in different screens, block save entire pictures or portions of pictures to disk, create your own clip art reference files, scale, flip, and rotate whole pictures or portions, grid snap aligns your picture elements with expert precision, and color cycling. Additional incredible new advanced features including color animation, block move, text size and font style, stretch and 360 degree rotation. Watch for review in ST WORLD VOL 1, No. 5.

### EPYX

1043 Kiel Court  
Sunnyvale, CA 94089  
(408) 745-0700

**ROGUE** - (\$39.95) A dungeons and dragons type of game, faithfully transferred from the only mainframe game of early years with improvements taking advantage of the ST's graphics and sound capabilities.

### BRODERBUND SOFTWARE

1938 Fourth Street  
San Rafael, CA 94901  
(415) 479-1700

**BRIMSTONE** - (\$44.95) A text adventure game set in the days of King Arthur and the Knights of the Round Table.

### ACTION SOFTWARE

69 Clementina Street  
San Francisco, CA 94105  
(415) 974-6638

**SOLARPAK ST** - (\$39.95) is a three program disk containing PRINT SPOOLER, a print spooler that allows you to print ram disk files while simultaneously running other programs. Queue

SoftWerx 'MaxPak™'  
a comprehensive productivity package for the ST



Seven powerful programs combine in MaxPak™ to help you get the most out of your ST

#### High-Speed Print Spooler

No more waiting for printing. Immediately returns you to your program. Abort, reprint, or redirect the spooler to a disk file. Page jammed? No problem! Reprint any or all pages as many times as you like.

#### Printer Configurator

Put your printer in compressed mode, letter quality mode, bold face, or any other feature your printer supports. Works inside any program (ie. word processing or spreadsheet). Hundreds of printers supported.

#### File Lister

Print out documents, program listings, and text files. Options are headings, page numbers, line numbers, tab expansion & more.

#### Screen Clock

Flickerless digital clock, unobtrusively ticks away the seconds in the corner of the screen. Sets time on power up.

#### Macro Keys

Record frequently used phrases, passwords, or keystroke sequences and assign them to any key on the keyboard. MaxPak™ will instantly play them back to your program with a single keystroke.

#### Ram Disk

An ultra-fast, variable size, memory based disk drive. Automatically copies files to the ramdisk when you power up.

#### Screen Saver

Prevents damage to CRT phosphors. Automatically turns off the ST's screen if you haven't touched the keyboard or mouse for a while. Just nudge the mouse or press a key and the screen instantly returns.

All MaxPak functions work in all three ST screen resolutions with GEM and non-GEM programs. MaxPak gives your ST a boost in capability and performance that no ST user will want to be without. Maximize your ST system with MaxPak!

Available at ST dealers nationwide. To order by credit card call (801) 272-5623

**SOFTWERX**  
P.O. Box 71118 - Murray, UT 84107

**\$49.95**

Also by SoftWerx, watch for:  
StakPak™ a whole Stack of powerful accessories for your ST.  
ThinkPak™ an outline processor that let's you organize your thoughts into useful outlines.

ST is a trademark of Atari Corp.

up to eight files for printing with separate print qualities supported by your printer. Completely GEM based with 32 button options editor; **RAM DISK**, allows you to configure up to 1Mb and 128 files, automatically load specified files into ram disk on boot up; **SCREEN SAVER**, guard against screen burn-in, select the period of time before screen automatically shuts off if there is no detectable keyboard or mouse activity. Screen is restored with keyboard or mouse activity.

### ELECTRONIC MUSIC PUBLISHING HOUSE, INC.

2210 Wilshire Blvd., Suite #488  
Santa Monica, CA 90403  
(213) 455-2025

**MIDIPLAY** - (\$49.95) is a program to use with any instrument that recognizes the MIDI standard 1.0 specification. Examples are: Casio CZ-101, Roland Juno 106, Yamaha DX7 and Emulator II. With MIDIPLAY your ST becomes a 16 channel, single track MIDI recorder with a built in 3 voice velocity sensitive MIDI synthesizer.

**MUSIDISC BEATLES VOL I** - (\$19.95) is a collection of 12 Beatles songs: Eleanor Rigby, Penny Lane, Yesterday, In My Life, Michelle, With a Little Help from My Friends, Norwegian Wood, Yellow Submarine, Sgt. Pepper's Lonely Hearts Club Band, When I'm Sixty Four and Lucy in the Sky with Diamonds. (Requires MIDIPLAY to playback through ST)

**MUSIDISC CLASSICS VOL 1** - (\$19.95) is a collection of 12 classics: Moonlight Sonata & For Elise (Beethoven); Jesu Joy of Man's Desiring, Minuet in G (Bach); Valse, E Flat Nocturne (Chopin); Arabesque & Clair de Lune (Debussy); A la Turca, Gavotte & C Sonata (Mozart). (Require MIDIPLAY to playback)



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